

549,961

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number  
**WO 2004/096146 A2**

(51) International Patent Classification<sup>7</sup>: **A61K**

(21) International Application Number:  
PCT/US2004/013034

(22) International Filing Date: 26 April 2004 (26.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/465,476 25 April 2003 (25.04.2003) US

(71) Applicant and

(72) Inventor: **NOLAN, Gerard, M.** [US/US]; 2 Wiltshire  
Place, P.O. Box 827, Farmington, CT 06032 (US).

(74) Agent: **KUMAR, Nanda, P., B., A.**; Reed Smith LLP,  
2500 One Liberty Place, 1650 Market Street, Philadelphia,  
PA 19103 (US).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: METHOD AND COMPOSITION FOR PREVENTING, REDUCING AND REVERSING OCULAR ISCHEMIC NEU-  
RONAL DAMAGE

(57) Abstract: Methods and compositions are provided for preventing, reducing and reversing ischemic neuronal damage related to congenital and acquired ophthalmologic conditions such as macular degeneration, retinitis pigmentosa, optic neuritis, neuroretini-  
tis, Lebers congenital amaurosis, Stargardts disease, Parkinson's disease, diabetic retinopathy, idiopathic senile vision loss, uveitis,  
edema and ocular surgery. An amount of an acetylcholine esterase inhibitor containing composition is administered to the eye of a  
mammal, either topically or via a controlled-release drug delivery system.



WO 2004/096146 A2